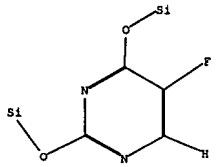
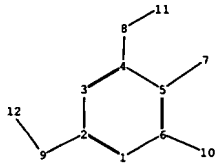
EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	136	536/28.4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/01 09:17
L2	707	536/55.3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/01 09:34
L3	53	giorgio.inv. and Bertolini.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/01 09:36
L4	94	Marco.inv. and Frigerio.inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/01 09:36
S1	3	("4340729").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/09/25 15:08
S2	251	5'-deoxy-5-fluorouridine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/10/01 09:17

C:\Program Files\Stnexp\Queries\10576598.str





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7 8 9 10 11 12
ring nodes :
1 2 3 4 5 6
chain bonds :
2-9 4-8 5-7 6-10 8-11 9-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-9 4-8
exact bonds :
5-7 6-10 8-11 9-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

10/576,598

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	BEILSTEIN updated with new compounds
NEWS 12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 13	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 14	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16	AUG 27	USPATOLD now available on STN
NEWS 17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19	SEP 13	FORIS renamed to SOFIS
NEWS 20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 21	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 23	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 02:56:05 ON 01 OCT 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 02:56:16 ON 01 OCT 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 SEP 2007 HIGHEST RN 948877-55-2
DICTIONARY FILE UPDATES: 28 SEP 2007 HIGHEST RN 948877-55-2

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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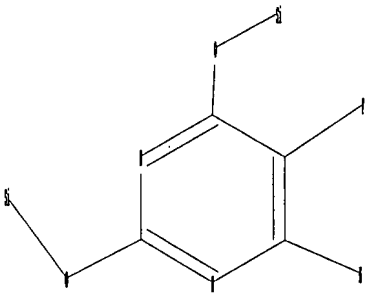

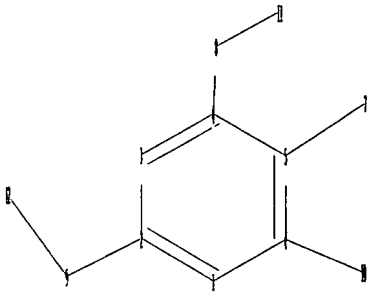

chain nodes :
7 8 9 10 11 12
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2-9 4-8 5-7 6-10 8-11 9-12
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1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-9 4-8
exact bonds :
5-7 6-10 8-11 9-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :

containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS

L1 STRUCTURE UPLOADED

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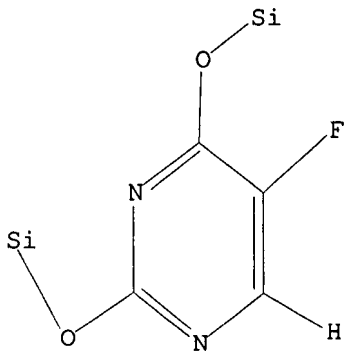
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
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SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

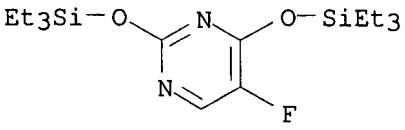
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9 TO 360
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan

10/576,598

L2 1 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Pyrimidine, 5-fluoro-2,4-bis[(triethylsilyl)oxy]- (9CI)
MF C16 H31 F N2 O2 Si2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

10/576,598

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FULL SCREEN SEARCH COMPLETED -      147 TO ITERATE

100.0% PROCESSED      147 ITERATIONS                                  6 ANSWERS
SEARCH TIME: 00.00.01

L3            6 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 172.10     172.31

FILE 'CAPLUS' ENTERED AT 02:57:05 ON 01 OCT 2007
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FILE LAST UPDATED: 30 Sep 2007  (20070930/ED)

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http://www.cas.org/infopolicy.html

=> s l3
L4          298 L3

=> s l4 and process
       2497806 PROCESS
L5            7 L4 AND PROCESS

=> s l4 and doxifluridine
            293 DOXIFLURIDINE
L6            2 L4 AND DOXIFLURIDINE

=> s l5 or l6
L7            7 L5 OR L6

=> d l7 1-7 bib abs
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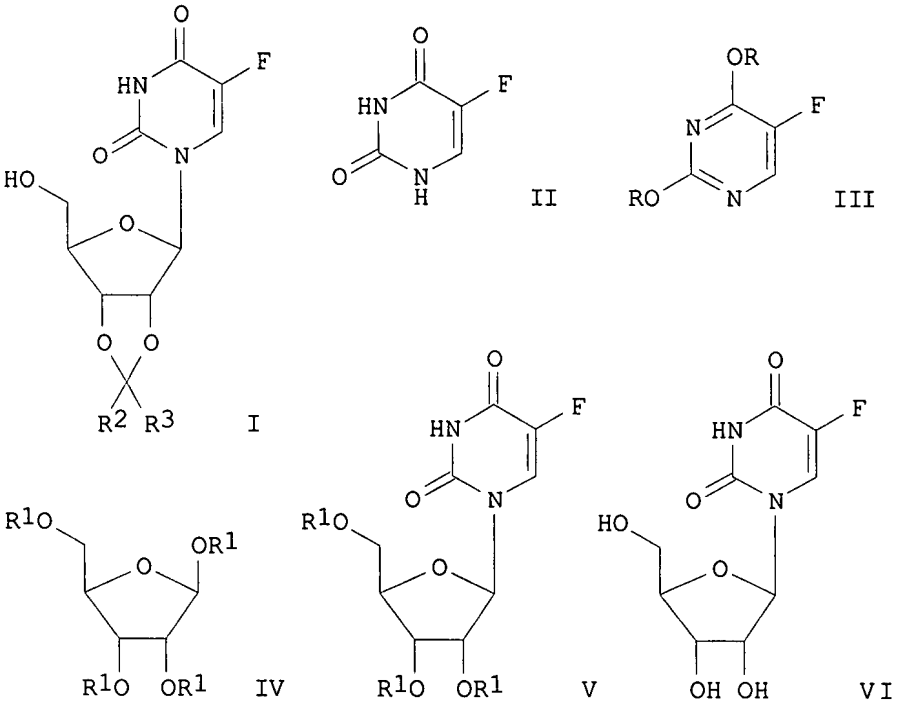
L7 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:962291 CAPLUS
DN 143:60175
TI Efficient Pyrimidine N-1-Alkylation via Activation of Electron Rich Olefins with Oxoammonium Salts: Synthesis of Methoxy TEMPO Substituted Pyrimidine Nucleoside Analogs
AU Church, Kevin M.; Holloway, Liesel M.; Matley, Ryan C.; Brower, Robert J., III
CS Department of Chemistry, University of Dayton, Dayton, OH, 45469, USA
SO Nucleosides, Nucleotides & Nucleic Acids (2004), 23(11), 1723-1738
CODEN: NNNAFY; ISSN: 1525-7770
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 143:60175
AB The use of oxoammonium salts in a formal 1,2-addition process to olefins giving nucleoside analogs as products was described. Specifically, oxoammonium salts can be added to a solution of olefin and silylated heterocycle to give Methoxy-TEMPO substituted nucleoside analogs after hydrolytic workup and chromatog. purification
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:664103 CAPLUS
DN 137:169742
TI Step-wise and one-pot processes for the preparation of a uridine derivative, namely 2',3'-O-alkylidene-5-fluorouridine, from 5-fluorouracil
IN Cotticelli, Giovanni; De Meglio, Giuseppe; Monciardini, Simone; Ordanini, Giancarlo
PA Pro.Bio.Sint. Srl, Italy
SO Ital., 17 pp.
CODEN: ITXXBY
DT Patent
LA Italian
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI IT 1302006	B1	20000720	IT 1998-MI1852	19980806
PRAI IT 1998-MI1852		19980806		

OS CASREACT 137:169742; MARPAT 137:169742
GI

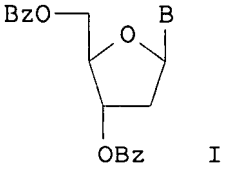


AB Title compds. I [R2, R3 = H, C1-4 alkyl; or R2R3 = (CH2)4 or (CH2)5] are prepared by an improved method. In particular, I are prepared in 4 steps, which may be carried out sep. or in a single pot. Specifically, (1) 5-fluorouracil (II) is treated with a silylating agent until it is completely solubilized; (2) the resultant silylated product III [R = H or trialkylsilyl, especially SiMe3] is treated with a β-D-ribose tetraester IV [R1 = alkanoyl, benzoyl, or benzoyl substituted with Me, OMe, NO2, F, Br, or Cl] in the presence of a condensing agent; (3) the obtained 5-fluorouridine triester V is hydrolyzed; and finally (4) the resulting 5-fluorouridine (VI) is treated with a ketone R2COR3 in an acidic medium. For example, in a one-pot preparation of I [R2 = R3 = Me] from II, using ClSiMe3 and HMDS in step 1, 1β-D-tetraacetylribose in step 2, aqueous NH3

in MeOH in step 3, and acetone containing H_2SO_4 in step 4, an overall yield of approx. 70% was obtained, with a product purity of 99.7% by HPLC. Examples of the individual steps for the case of R2 = R3 = Me are also given. I are known intermediates for the cytostatic agent doxifluridine.

L7 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:402634 CAPLUS
DN 138:187722
TI Improved process for the synthesis of Doxifluridine
AU Dong, Hui; Qian, Hong
CS Anhui Keyu Research Institute of Drugs, Hefei, 230001, Peop. Rep. China
SO Zhongguo Yiyao Gongye Zazhi (2002), 33(3), 108-110
CODEN: ZYGZEA; ISSN: 1001-8255
PB Zhongguo Yiyao Gongye Zazhi Bianjibu
DT Journal
LA Chinese
OS CASREACT 138:187722
AB Doxifluidine was synthesized from 5-fluorouracil via tri-Me silylation, condensation, saponification, ketal formation, iodation, hydrogenolysis, and hydrolysis, giving the product with overall yield 54.6%.

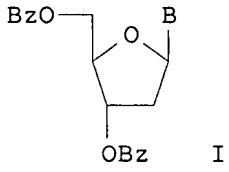
L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:501735 CAPLUS
DN 125:248308
TI Stereocontrolled De Novo Synthesis of β-2'-Deoxyribonucleosides
AU Park, Minnie; Rizzo, Carmelo J.
CS Department of Chemistry, Vanderbilt University, Nashville, TN, 37235, USA
SO Journal of Organic Chemistry (1996), 61(18), 6092-6093
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 125:248308
GI



I

AB A stereocontrolled, de novo preparation of β-2'-deoxyribonucleosides, e.g. I (B = uracil, thymine), has been achieved. The process required just four steps from com. available 1,3,5-tribenzoyl-α-D-ribose and proceeded in high overall yield. The key synthetic strategy was the use of a m-trifluoromethylbenzoyl group at the 2-position of ribose to direct the glycosidation reaction and also serve as a deoxygenation precursor. The five 2'-deoxynucleosides that were synthesized were 2'-deoxyuridine, thymidine, 5-fluoro-2'-deoxyuridine, 5-trifluoromethyl-2'-deoxyuridine (trifluiridine) and 2'-deoxycytidine.

L7 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:501735 CAPLUS
DN 125:248308
TI Stereocontrolled De Novo Synthesis of β-2'-Deoxyribonucleosides
AU Park, Minnie; Rizzo, Carmelo J.
CS Department of Chemistry, Vanderbilt University, Nashville, TN, 37235, USA
SO Journal of Organic Chemistry (1996), 61(18), 6092-6093
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 125:248308
GI



I

AB A stereocontrolled, de novo preparation of β-2'-deoxyribonucleosides, e.g. I (B = uracil, thymine), has been achieved. The process required just four steps from com. available 1,3,5-tribenzoyl-α-D-ribose and proceeded in high overall yield. The key synthetic strategy was the use of a m-trifluoromethylbenzoyl group at the 2-position of ribose to direct the glycosidation reaction and also serve as a deoxygenation precursor. The five 2'-deoxynucleosides that were synthesized were 2'-deoxyuridine, thymidine, 5-fluoro-2'-deoxyuridine, 5-trifluoromethyl-2'-deoxyuridine (trifluiridine) and 2'-deoxycytidine.

L7 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1992:41980 CAPLUS
DN 116:41980
TI Process for the manufacture of 2-deoxy-D-threo-pentofuranosides, intermediates for their manufacture and their use
IN Saischek, Gerald; Fuchs, Franz; Dax, Karl; Billiani, Gertrude
PA Chemische Produkte Saischek G.m.b.H. (CHEMPROSA), Austria
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 450585	A2	19911009	EP 1991-105231	19910403
	EP 450585	A3	19930310		
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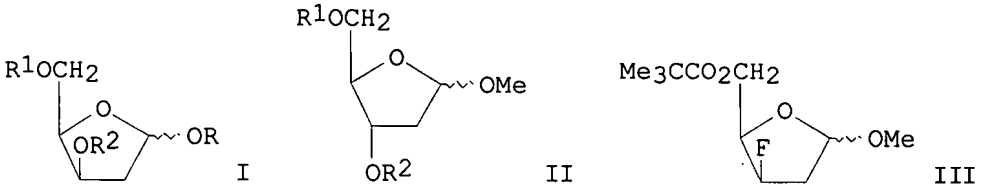
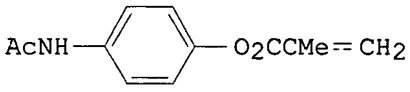
	AT 9000791	A	19911015	AT 1990-791	19900404
	AT 394564	B	19920511		
	AT 9001410	A	19920115	AT 1990-1410	19900703
	AT 395426	B	19921228		
	CA 2039403	A1	19911005	CA 1991-2039403	19910328
	FI 9101603	A	19911005	FI 1991-1603	19910403
	HU 57225	A2	19911128	HU 1991-1086	19910403
	JP 05097885	A	19930420	JP 1991-154206	19910404
PRAI	AT 1990-791	A	19900404		
	AT 1990-1410	A	19900703		

OS CASREACT 116:41980; MARPAT 116:41980
GI



AB Title compds. I (R = alkyl; R1 = protective group, R2 = H) were prepared from the erythro isomers. Thus, erythro-pentofuranoside II (R1, R2 = H) was pivaloylated and mesylated to give II (R1 = Me3CCO, R2 = MeSO2) which was treated with BzONa to give I (R = Me, R1 = Bz, R2 = Me3CCO). The latter compound was debenzoylated, mesylated, and treated with Bu4NF to give fluoride III which was deacylated and deglycosidated to give 2,3-dideoxy-3-fluoro-D-erythro-pentose.

L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1991:457020 CAPLUS
DN 115:57020
TI A new development of mechanochemical solid-state polymerization of vinyl monomers: prodrug syntheses and its detailed mechanistic study
AU Kuzuya, Masayuki; Kondo, Sinichi; Noguchi, Akihiro
CS Lab. Pharm. Phys. Chem., Gifu Pharm. Univ., Gifu, 502, Japan
SO Macromolecules (1991), 24(14), 4047-53
CODEN: MAMOBX; ISSN: 0024-9297
DT Journal
LA English
GI



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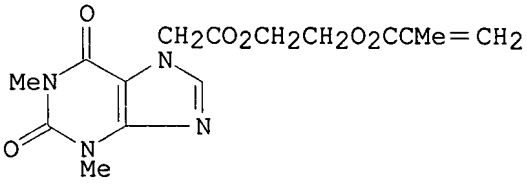

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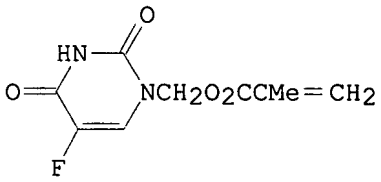


III

AB The first exptl. example of mechanochem. polymerization of specially synthesized solid-state monomers, methacryloyl derivs. of bioactive compds., I-III, is described. It has been shown, however, that there exists a monomer selectivity for efficiency of such reactions, although all the monomers studied undergo conventional solution polymns. using radical initiators. The detailed mechanistic implications on the reaction of I, as a representative example, have been clarified based on ESR kinetics on its comparison with that of the corresponding mechanoradical formation of I polymer, the progressive changes in mol. weight distribution including its heterogeneity, and kinetics of the polymer conversion. It has been shown that the mechanochem. polymerization involves a mechanoradical-initiated polymerization as a dominant process, and if one appropriate designs methacryloyl vinyl monomers along the line of the structural criteria derived from the quantum chemical considerations, one can make a variety of solid-state monomers undergo the mechanochem. polymns. essentially quant. Thus, the present result provides a novel and simple methodol. for polymeric prodrug syntheses of low heterogeneity through a totally dry process.

L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1988:406905 CAPLUS
DN 109:6905
TI New process for the preparation of purine and pyrimidine nucleosides
IN Noyori, Ryoji; Hayashi, Masahiko
PA Sankyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62267294	A	19871119	JP 1986-112135	19860516
PRAI	JP 1986-112135		19860516		

OS CASREACT 109:6905
GI For diagram(s), see printed CA Issue.
AB The title nucleosides (I; R = pyrimidine or purine base residue; R1, R2 = protecting group; l, m, n = 0-3 wherein l + m + n = 2, 3) (II) of medicinal interest were prepared by glycosidation of 1-fluoro sugar derivs. I (R = F) with purines or pyrimidines silylated with 1-3 Me3Si groups. SiF4 in MeCN was added at 0° to a solution of 2,3,5-tri-O-benzyl-α-D-ribofuranosyl fluoride and bis(trimethylsilyl)uracil in MeCN and the mixture was stirred 2h at 0° to give 85% a 1:5.2 mixture of 1-(2',3',5'-tri-O-benzyl-α- and β-ribofuranosyl)uracil.

10/576,598

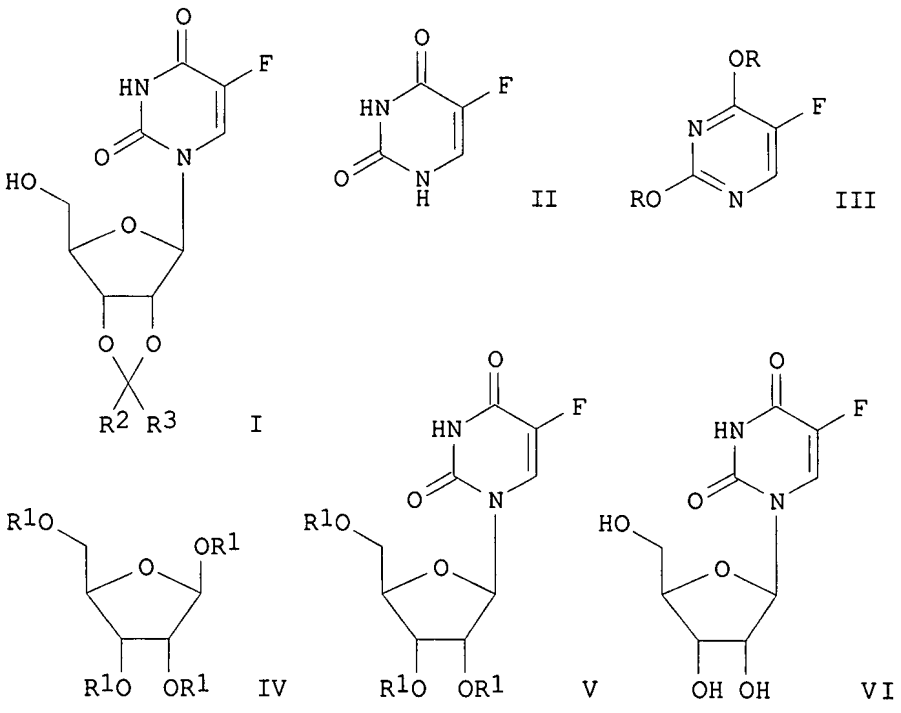
=> d l5 1-2 bib abs

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:962291 CAPLUS
DN 143:60175
TI Efficient Pyrimidine N-1-Alkylation via Activation of Electron Rich Olefins with Oxoammonium Salts: Synthesis of Methoxy TEMPO Substituted Pyrimidine Nucleoside Analogs
AU Church, Kevin M.; Holloway, Liesel M.; Matley, Ryan C.; Brower, Robert J., III
CS Department of Chemistry, University of Dayton, Dayton, OH, 45469, USA
SO Nucleosides, Nucleotides & Nucleic Acids (2004), 23(11), 1723-1738
CODEN: NNNAFY; ISSN: 1525-7770
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 143:60175
AB The use of oxoammonium salts in a formal 1,2-addition process to olefins giving nucleoside analogs as products was described. Specifically, oxoammonium salts can be added to a solution of olefin and silylated heterocycle to give Methoxy-TEMPO substituted nucleoside analogs after hydrolytic workup and chromatog. purification
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:664103 CAPLUS
DN 137:169742
TI Step-wise and one-pot processes for the preparation of a uridine derivative, namely 2',3'-O-alkylidene-5-fluorouridine, from 5-fluorouracil
IN Cotticelli, Giovanni; De Meglio, Giuseppe; Monciardini, Simone; Ordanini, Giancarlo
PA Pro.Bio.Sint. Srl, Italy
SO Ital., 17 pp.
CODEN: ITXXBY
DT Patent
LA Italian
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI IT 1302006	B1	20000720	IT 1998-MI1852	19980806
PRAI IT 1998-MI1852		19980806		

OS CASREACT 137:169742; MARPAT 137:169742
GI



AB Title compds. I [R2, R3 = H, C1-4 alkyl; or R2R3 = (CH2)4 or (CH2)5] are prepared by an improved method. In particular, I are prepared in 4 steps, which may be carried out sep. or in a single pot. Specifically, (1) 5-fluorouracil (II) is treated with a silylating agent until it is completely solubilized; (2) the resultant silylated product III [R = H or trialkylsilyl, especially SiMe3] is treated with a β-D-ribose tetraester IV [R1 = alkanoyl, benzoyl, or benzoyl substituted with Me, OMe, NO2, F, Br, or Cl] in the presence of a condensing agent; (3) the obtained 5-fluorouridine triester V is hydrolyzed; and finally (4) the resulting 5-fluorouridine (VI) is treated with a ketone R2COR3 in an acidic medium. For example, in a one-pot preparation of I [R2 = R3 = Me] from II, using ClSiMe3 and HMDS in step 1, 1β-D-tetraacetylribose in step 2, aqueous NH3

in MeOH in step 3, and acetone containing H_2SO_4 in step 4, an overall yield of approx. 70% was obtained, with a product purity of 99.7% by HPLC. Examples of the individual steps for the case of R2 = R3 = Me are also given. I are known intermediates for the cytostatic agent doxifluridine.

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=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.37	203.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.02	-7.02

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